

Title (en)

Manufacturing method of at least one micro-nozzle of an aerostatic bearing.

Title (de)

Verfahren zum Herstellen zumindest einer Mikrodüse eines aerostatischen Lagers.

Title (fr)

Procédé de fabrication d'au moins d'un micro-gicleur pour un palier aérostatique.

Publication

EP 0672839 A1 19950920 (DE)

Application

EP 94119709 A 19941214

Priority

DE 4403340 A 19940203

Abstract (en)

To produce at least one microjet, in an aerostatic bearing, at least one hole (4) is developed in a bearing surface (3), using an energy beam to form the microjet.

Abstract (de)

Bei dem erfindungsgemäßen Verfahren werden in eine verdichtete Lagerfläche (3) eines porösen Sintermaterials (1, 2) mehrere flächig verteilt angeordnete Löcher (4) mittels eines Laserstrahls eingebracht. Die flächig verteilten Löcher (4) in der verdichteten Lagerfläche (3) bilden Mikrodüsen eines aerostatischen Lagers. <IMAGE>

IPC 1-7

F16C 32/06

IPC 8 full level

B22F 3/24 (2006.01); **B23K 26/382** (2014.01); **B23K 26/386** (2014.01); **B23K 26/40** (2014.01); **F16C 32/06** (2006.01)

CPC (source: EP US)

B22F 3/24 (2013.01 - EP US); **B23K 26/382** (2015.10 - EP US); **B23K 26/389** (2015.10 - EP US); **B23K 26/40** (2013.01 - EP US); **F16C 32/0618** (2013.01 - EP US); **F16C 32/0622** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US); **B23K 2101/35** (2018.08 - EP US); **B23K 2103/08** (2018.08 - EP US); **B23K 2103/12** (2018.08 - EP US); **B23K 2103/50** (2018.08 - EP US); **Y02P 10/25** (2015.11 - EP US)

C-Set (source: EP US)

1. **B22F 2999/00 + B22F 3/24 + B22F 10/25 + B22F 12/43**
2. **B22F 2999/00 + B22F 3/24 + B22F 10/28 + B22F 12/43**

Citation (search report)

- [X] EP 0237627 A2 19870923 - SKF AB [SE]
- [DA] DE 3439648 C2 19890202
- [A] US 3645589 A 19720229 - BIRD MELVYN R
- [A] GB 1263054 A 19720209 - ATOMIC ENERGY AUTHORITY UK [GB]
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Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

US 5564063 A 19961008; AT E149239 T1 19970315; DE 4403340 A1 19950810; DE 59401860 D1 19970403; EP 0672839 A1 19950920; EP 0672839 B1 19970226

DOCDB simple family (application)

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